Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
BRUHAT BANGALORE MAHANAGARA PALIKE									
NAME OF WORK: Improvements to Roads and Drains at Jayamuni Badavane and surrounding areas in Ward No. 01 of Yelahanka Sub division									
Measurements Taken On :									
MEASUREMENT SHEET - 1st and FINAL BILL									
Chainage From	**Chainage To**	**Description of Item**	**Unit**	**No**	**Length (m)**	**Breadth (m)**	**Depth (m)**	**Quantity**	**Remarks**
Item No. 01		**Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.. and as per the directions of the Engineer-in-charge of the work .**							
		Drain							
		JP house road							
0	19.2		Cum	1	19.20	0.45	0.35	3.02	
		Muniyappa house(towards NH)							
		RHS							
0	26.2		Cum	1	26.20	0.45	0.35	4.13	
26.2	32.2		Cum	1	6.00	0.45	0.35	0.95	
32.2	47.2		Cum	1	15.00	0.45	0.35	2.36	
47.2	62.2		Cum	1	15.00	0.45	0.35	2.36	
		LHS							
0	15		Cum	1	15.00	0.45	0.35	2.36	
15	30		Cum	1	15.00	0.45	0.35	2.36	
30	39		Cum	1	9.00	0.45	0.35	1.42	
		After Cross road							
		RHS							
0	15		Cum	1	15.00	0.45	0.35	2.36	
15	30		Cum	1	15.00	0.45	0.35	2.36	
30	31.5		Cum	1	1.50	0.45	0.35	0.24	
		LHS							
0	15		Cum	1	15.00	0.45	0.35	2.36	
15	30		Cum	1	15.00	0.45	0.35	2.36	
30	45		Cum	1	15.00	0.45	0.35	2.36	
45	60		Cum	1	15.00	0.45	0.35	2.36	
60	61.5		Cum	1	1.50	0.45	0.35	0.24	
		Cross road							
		RHS							
0	18		Cum	1	18.00	0.45	0.35	2.84	
		LHS							
0	15		Cum	1	15.00	0.45	0.35	2.36	
15	24.8		Cum	1	9.80	0.45	0.35	1.54	
		Opposite of Ganesha temple cross road							
		LHS							
0	15		Cum	1	15.00	0.45	0.35	2.36	
15	30		Cum	1	15.00	0.45	0.35	2.36	
30	45		Cum	1	15.00	0.45	0.35	2.36	
45	49		Cum	1	4.00	0.45	0.35	0.63	

Contactor

CIVIL Pro Sig Date PMC BANGALORE

Assistant Engineer

M.E.E

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
		RHS							
0	15								
15	30		Cum	1	15.00	0.45	0.35	2.36	
30	45		Cum	1	15.00	0.45	0.35	2.36	
45	61		Cum	1	15.00	0.45	0.35	2.36	
			Cum	1	16.00	0.45	0.35	2.52	
		Appayya to Ramanna house							
		LHS							
0	15								
15	30		Cum	1	15.00	0.45	0.40	2.70	
30	45		Cum	1	15.00	0.45	0.40	2.70	
45	60		Cum	1	15.00	0.45	0.40	2.70	
60	75		Cum	1	15.00	0.45	0.40	2.70	
75	90		Cum	1	15.00	0.45	0.40	2.70	
			Cum	1	15.00	0.45	0.40	2.70	
		RHS							
0	15								
15	30		Cum	1	15.00	0.45	0.40	2.70	
30	45		Cum	1	15.00	0.45	0.40	2.70	
45	60		Cum	1	15.00	0.45	0.40	2.70	
60	75		Cum	1	15.00	0.45	0.40	2.70	
75	90		Cum	1	15.00	0.45	0.40	2.70	
90	104.1		Cum	1	15.00	0.45	0.40	2.70	
104.1	118.2		Cum	1	14.10	0.45	0.40	2.54	
			Cum	1	14.10	0.45	0.40	2.54	
		Cross Road							
0	15								
15	30		Cum	1	15.00	0.45	0.40	2.70	
30	45		Cum	1	15.00	0.45	0.40	2.70	
45	60		Cum	1	15.00	0.45	0.40	2.70	
60	75		Cum	1	15.00	0.45	0.40	2.70	
			Cum	1	15.00	0.45	0.40	2.70	
		Culvert							
			Cum	1	7.60	1.60	1.15	13.98	
			Cum	1	4.10	1.60	1.15	7.54	
		Over Burden	Cum	1	11.00	0.80	0.30	2.64	
							Total	132.82	

Contactor

CIVIL Pro Sig Date BANGALORE PMC

Assistant Engineer

A.E.E
Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item no. 02		**Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. and as per the directions of Engineer in-charge of work.**							
		Culvert							
			Cum	1	7.60	1.60	0.15	1.82	
			Cum	1	4.10	1.60	0.15	0.98	
		For Concrete Road							
		Anjaneya Swami temple road							
		Garrage main road							
		Lakeview entrance							
0	15		Cum	1	15.00	4.67	0.15	10.50	
15	30		Cum	1	15.00	4.60	0.15	10.35	
30	39		Cum	1	9.00	5.05	0.15	6.82	
39	50.6		Cum	1	11.60	4.25	0.15	7.40	
		2nd Cross							
		Venkatala							
0	15		Cum	1	15.00	3.97	0.15	8.93	
15	40		Cum	1	25.00	3.57	0.15	13.38	
		4th Cross							
		Venkatala							
0	15		Cum	1	15.00	4.63	0.15	10.43	
15	38		Cum	1	23.00	4.60	0.15	15.87	
		Jayamuni layout 1st Cross							
		Kanasu house							
0	30		Cum	1	30.00	5.13	0.15	23.10	
30	60		Cum	1	30.00	5.13	0.15	23.10	
60	90		Cum	1	30.00	5.23	0.15	23.55	
90	120		Cum	1	30.00	5.10	0.175	26.78	
120	150	Sathish house	Cum	1	30.00	5.30	0.15	23.85	
150	180		Cum	1	30.00	5.43	0.175	28.53	
180	210		Cum	1	30.00	5.37	0.15	24.15	
210	240		Cum	1	30.00	4.93	0.175	25.90	
240	269.8		Cum	1	29.80	4.90	0.15	21.90	
		Jayamuni layout 2nd A main							
0	30		Cum	1	30.00	5.30	0.15	23.85	
30	60		Cum	1	30.00	5.07	0.150	22.80	
60	90	Navya shetty house	Cum	1	30.00	5.40	0.18	28.35	
90	120		Cum	1	30.00	5.23	0.175	27.48	
120	150	Appayya house	Cum	1	30.00	4.90	0.15	22.05	
150	180		Cum	1	30.00	5.17	0.160	24.80	
180	210		Cum	1	30.00	5.33	0.15	24.00	
210	231		Cum	1	21.00	5.20	0.15	16.38	
		Opposite of Ganesha temple							

Contactor

CIVIL PWD BANGALORE

Assistant Engineer

A.E.E

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
0	15		Cum	1	15.00	4.38	0.15	9.79	
15	28.2		Cum	1	13.20	4.20	0.15	8.32	
		Appayya to Ramanna house							
0	15		Cum	1	15.00	3.50	0.15	7.88	
15	30		Cum	1	15.00	3.50	0.15	7.88	
30	45		Cum	1	15.00	3.40	0.15	7.65	
45	60		Cum	1	15.00	3.50	0.15	7.88	
60	75		Cum	1	15.00	3.50	0.15	7.88	
75	90		Cum	1	15.00	3.50	0.15	7.88	
							TOTAL	562.15	

Contactor

CIVIL Brd
Sign
Date
PMC
BANGALORE

Assistant Engineer

A.E.E
Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No. 03		Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per specification as per specifications and as per the directions of the Engineer-in-charge of the work .							
		Bottom Slab							
		Culvert							
			Cum	1	7.60	1.50	0.20	2.28	
			Cum	1	4.10	1.50	0.20	1.23	
		Side Wall							
		Culvert							
			Cum	2	7.60	0.25	0.60	2.28	
			Cum	2	4.10	0.25	0.60	1.23	
		side walls Rising of existing drain							
		JP house road							
0	19.2		Cum	2	19.20	0.15	0.15	0.86	
		Muniyappa house(towards NH)							
		RHS							
0	26.2		Cum	2	26.20	0.15	0.15	1.18	
26.2	32.2		Cum	2	6.00	0.15	0.15	0.27	
32.2	47.2		Cum	2	15.00	0.15	0.15	0.68	
47.2	62.2		Cum	2	15.00	0.15	0.15	0.68	
		LHS							
0	15		Cum	2	15.00	0.15	0.15	0.68	
15	30		Cum	2	15.00	0.15	0.15	0.68	
30	39		Cum	2	9.00	0.15	0.15	0.41	
		After Cross road							
		RHS							
0	15		Cum	2	15.00	0.15	0.15	0.68	
15	30		Cum	2	15.00	0.15	0.15	0.68	
30	31.5		Cum	2	1.50	0.15	0.15	0.07	
		LHS							
0	15		Cum	2	15.00	0.15	0.15	0.68	
15	30		Cum	2	15.00	0.15	0.15	0.68	
30	45		Cum	2	15.00	0.15	0.15	0.68	
45	60		Cum	2	15.00	0.15	0.15	0.68	
60	61.5		Cum	2	1.50	0.15	0.15	0.07	
		Cross road							
		RHS							
0	18		Cum	2	18.00	0.15	0.15	0.81	
		LHS							
0	15		Cum	2	15.00	0.15	0.15	0.68	
15	24.8		Cum	2	9.80	0.15	0.15	0.44	
		Opposite of Ganesha temple cross road							
		LHS							

Contactor

CIVIL Prof. Sig Date PMC BANGALORE

Assistant Engineer

A.E.E

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
0	15		Cum	2	15.00	0.15	0.15	0.68	
15	30		Cum	2	15.00	0.15	0.15	0.68	
30	45		Cum	2	15.00	0.15	0.15	0.68	
45	49		Cum	2	4.00	0.15	0.15	0.18	
		RHS							
0	15		Cum	2	15.00	0.15	0.15	0.68	
15	30		Cum	2	15.00	0.15	0.15	0.68	
30	45		Cum	2	15.00	0.15	0.15	0.68	
45	61		Cum	2	16.00	0.15	0.15	0.72	
		Appayya to Ramanna house							
		LHS							
0	15		Cum	2	15.00	0.15	0.15	0.68	
15	30		Cum	2	15.00	0.15	0.15	0.68	
30	45		Cum	2	15.00	0.15	0.15	0.68	
45	60		Cum	2	15.00	0.15	0.15	0.68	
60	75		Cum	2	15.00	0.15	0.15	0.68	
75	90		Cum	2	15.00	0.15	0.15	0.68	
		RHS							
0	15		Cum	2	15.00	0.15	0.15	0.68	
15	30		Cum	2	15.00	0.15	0.15	0.68	
30	45		Cum	2	15.00	0.15	0.15	0.68	
45	60		Cum	2	15.00	0.15	0.15	0.68	
60	75		Cum	2	15.00	0.15	0.15	0.68	
75	90		Cum	2	15.00	0.15	0.15	0.68	
90	104.1		Cum	2	14.10	0.15	0.15	0.63	
104.1	118.2		Cum	2	14.10	0.15	0.15	0.63	
		Cross Road							
0	15		Cum	2	15.00	0.15	0.20	0.90	
15	30		Cum	2	15.00	0.15	0.20	0.90	
30	45		Cum	2	15.00	0.15	0.20	0.90	
45	60		Cum	2	15.00	0.15	0.20	0.90	
60	75		Cum	2	15.00	0.15	0.20	0.90	
		Cross Road							
0	15		Cum	2	15.00	0.15	0.20	0.90	
15	30		Cum	2	15.00	0.15	0.20	0.90	
30	45		Cum	2	15.00	0.15	0.20	0.90	
45	60		Cum	2	15.00	0.15	0.20	0.90	
60	75		Cum	2	15.00	0.15	0.20	0.90	
75	90		Cum	2	15.00	0.15	0.20	0.90	
90	111		Cum	2	21.00	0.15	0.20	1.26	
							TOTAL	44.03	

CIVIL Pro Sig Date BANGALORE

Contactor PMC

Assistant Engineer

Assistant Executive Engineer

M.E.E

Sl NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	Length	Total Length	Weight	Total weight
			mm			m	m	kg/m	Kg's
	Item no.04	**Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.**							
	side walls Rising of existing draini								
	JP house road								
	Main Bars (#10@180 c/c)	2	10	108	215	0.15	32.30	0.616538	19.91
	Distribution(2-#8)	2	8	2	4	19.20	76.80	0.394584	30.30
	Muniyappa house(towards NH)								
	RHS								
	Main Bars (#10@180 c/c)	2	10	347	693	0.15	103.97	0.616538	64.10
	Distribution(2-#8)	2	8	2	4	62.20	248.80	0.394584	98.17
	LHS								
	Main Bars (#10@180 c/c)	2	10	218	435	0.15	65.30	0.616538	40.26
	Distribution(2-#8)	2	8	2	4	62.20	248.80	0.394584	98.17
	Cross road								
	RHS								
	Main Bars (#10@180 c/c)	2	10	101	202	0.15	30.30	0.616538	18.68
	Distribution(2-#8)	2	8	2	4	18.00	72.00	0.394584	28.41
	LHS								
	Main Bars (#10@180 c/c)	2	10	139	278	0.15	41.63	0.616538	25.67
	Distribution(2-#8)	2	8	2	4	24.80	99.20	0.394584	39.14
	Opposite of Ganesha temple cross road								
	LHS								
	Main Bars (#10@180 c/c)	2	10	273	546	0.15	81.97	0.616538	50.54
	Distribution(2-#8)	2	8	2	4	49.00	196.00	0.394584	77.34
	RHS								
	Main Bars (#10@180 c/c)	2	10	340	680	0.15	101.97	0.616538	62.87
	Distribution(2-#8)	2	8	2	4	61.00	244.00	0.394584	96.28
	Appayya to Ramanna house								
	LHS								
	Main Bars (#10@180 c/c)	2	10	501	1002	0.15	150.30	0.616538	92.67
	Distribution(2-#8)	2	8	2	4	90.00	360.00	0.394584	142.05
	RHS								
	Main Bars (#10@180 c/c)	2	10	658	1315	0.15	197.30	0.616538	121.64
	Distribution(2-#8)	2	8	2	4	118.20	472.80	0.394584	186.56

CIVIL Pro Sig Date PMC BANGALORE

12-12-17

Contractor

Assistant Engineer

Assistant Executive Engineer

	Cross Road-								
	Main Bars (#10@180 c/c)	2	10	4190	8380	0.15	1256.97	0.616538	774.97
	Distribution(2-#8)	2	8	2	4	75.00	300.00	0.394584	118.38
	Cross Road-								
	Main Bars (#10@180 c/c)	2	10	618	1235	0.15	185.30	0.616538	114.24
	Distribution(2-#8)	2	8	2	4	111.00	444.00	0.394584	175.20
	Culvert								
	To Cross Road								
	side wall								
	Main Bars outer face (#12@200 c/c)	2	12	39	78	3.10	241.80	0.887814	214.67
	Main Bars inner face (#12@200 c/c)	2	12	39	78	2.70	210.60	0.887814	186.97
	Distribution								
	side walls(8#8)	4	8	8	32	0.80	25.60	0.394584	10.10
	bottom slab(8-#8)	2	8	8	16	1.50	24.00	0.394584	9.47
	Main Road Towards NH								
	side wall								
	Main Bars outer face (#12@200 c/c)	2	12	22	43	3.10	133.30	0.887814	118.35
	Main Bars inner face (#12@200 c/c)	2	12	22	43	2.70	116.10	0.887814	103.08
	Distribution								
	side walls(8#8)	4	8	8	32	0.80	25.60	0.394584	10.10
	bottom slab(8-#8)	2	8	8	16	1.50	24.00	0.394584	9.47
								TOTAL QTY IN KG'S	**3137.75**
								TOTAL QTY IN TONNE	**3.14**
								Quantity Limited To	**1.13**

Contractor

CIVIL Pro Sig. Date PMC BANGALORE

Assistant Engineer
12-12-13

12/12/13
A.E.E
Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item no.05		**Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete as per specifications and as per the directions of the Engineer-in-charge of the work . (Data Rate)**							
		Drain							
		JP house road							
0	19.2								
		Muniyappa house(towards NH)	Sqm	1	19.20	0.75		14.40	
		RHS							
0	26.2								
26.2	32.2		Sqm	1	26.20	0.75		19.65	
32.2	47.2		Sqm	1	6.00	0.75		4.50	
47.2	62.2		Sqm	1	15.00	0.75		11.25	
			Sqm	1	15.00	0.75		11.25	
		LHS							
0	15		Sqm	1	15.00	0.75		11.25	
15	30		Sqm	1	15.00	0.75		11.25	
30	39		Sqm	1	9.00	0.75		6.75	
		After Cross road							
		RHS							
0	15		Sqm	1	15.00	0.75		11.25	
15	30		Sqm	1	15.00	0.75		11.25	
30	31.5		Sqm	1	1.50	0.75		1.13	
		LHS							
0	15		Sqm	1	15.00	0.75		11.25	
15	30		Sqm	1	15.00	0.75		11.25	
30	45		Sqm	1	15.00	0.75		11.25	
45	60		Sqm	1	15.00	0.75		11.25	
60	61.5		Sqm	1	1.50	0.75		1.13	
		Cross road							
		RHS							
0	18		Sqm	1	18.00	0.75		13.50	
		LHS							
0	15		Sqm	1	15.00	0.75		11.25	
15	24.8		Sqm	1	9.80	0.75		7.35	
		Opposite of Ganesha temple cross road							
		LHS							
0	15		Sqm	1	15.00	0.75		11.25	
15	30		Sqm	1	15.00	0.75		11.25	
30	45		Sqm	1	15.00	0.75		11.25	
45	49		Sqm	1	4.00	0.75		3.00	
		RHS							
0	15		Sqm	1	15.00	0.75		11.25	
15	30		Sqm	1	15.00	0.75		11.25	
30	45		Sqm	1	15.00	0.75		11.25	
45	61		Sqm	1	16.00	0.75		12.00	

22/01/2020

CIVIL Pro Sig Date PMC BANGALORE

Contactor

13-12-19

Assistant Engineer

A.E.E 22/1/2020

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
		Appayya to Ramanna house							
		LHS							
0	15		Sqm	1	15.00	0.75		11.25	
15	30		Sqm	1	15.00	0.75		11.25	
30	45		Sqm	1	15.00	0.75		11.25	
45	60		Sqm	1	15.00	0.75		11.25	
60	75		Sqm	1	15.00	0.75		11.25	
75	90		Sqm	1	15.00	0.75		11.25	
		RHS							
0	15		Sqm	1	15.00	0.75		11.25	
15	30		Sqm	1	15.00	0.75		11.25	
30	45		Sqm	1	15.00	0.75		11.25	
45	60		Sqm	1	15.00	0.75		11.25	
60	75		Sqm	1	15.00	0.75		11.25	
75	90		Sqm	1	15.00	0.75		11.25	
90	104.1		Sqm	1	14.10	0.75		10.58	
104.1	118.2		Sqm	1	14.10	0.75		10.58	
		Cross Road							
0	15		Sqm	1	15.00	0.75		11.25	
15	30		Sqm	1	15.00	0.75		11.25	
30	45		Sqm	1	15.00	0.75		11.25	
45	60		Sqm	1	15.00	0.75		11.25	
60	75		Sqm	1	15.00	0.75		11.25	
		Cross Road							
0	15		Sqm	1	15.00	0.75		11.25	
15	30		Sqm	1	15.00	0.75		11.25	
30	45		Sqm	1	15.00	0.75		11.25	
45	60		Sqm	1	15.00	0.75		11.25	
60	75		Sqm	1	15.00	0.75		11.25	
75	90		Sqm	1	15.00	0.75		11.25	
90	111		Sqm	1	21.00	0.75		15.75	
							Total	570.30	
							Quantity Limited To	514.13	

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22/01/2020

CIVIL Pro Sig. Date PMC BANGALORE

Contactor

Assistant Engineer 13-12-19

23/01/2020 A.E

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item no. 06		**Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement , including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete as per specifications and as per the directions of the Engineer-in-charge of the work .(Data Rate)**							
		Culvert							
		to Cross Road	Sqm	1	7.60	1.20		9.12	
		Main Road Toward NH	Sqm	1	4.10	1.20		4.92	
		Missing Cover Slab	Sqm	1	4.10	1.20		4.92	
							Total	18.96	
							Quantity Limited To	18.00	

Contactor

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CIVIL Pro BANGALORE

13-12-19

Assistant Engineer

22/01/2020

A.E.E

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item no. 07		Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers , trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications as per specifications and as per the directions of the Engineer-in-charge of the work .							
		For Concrete Road							
		Anjaneya Swami temple road							
		Garrage main road							
		Lakeview entrance							
0	15		Cum	1	15.00	4.67	0.30	21.00	
15	30		Cum	1	15.00	4.60	0.30	20.70	
30	39		Cum	1	9.00	5.05	0.30	13.64	
39	50.6		Cum	1	11.60	4.25	0.30	14.79	
		2nd Cross							
		Venkatala							
0	15		Cum	1	15.00	3.97	0.30	17.85	
15	40		Cum	1	25.00	3.57	0.30	26.75	
		4th Cross							
		Venkatala							
0	15		Cum	1	15.00	4.63	0.30	20.85	
15	38		Cum	1	23.00	4.60	0.30	31.74	
		Jayamuni layout 1st Cross							
		Kanasu house							
0	30		Cum	1	30.00	5.13	0.30	46.20	
30	60		Cum	1	30.00	5.13	0.30	46.20	
60	90		Cum	1	30.00	5.23	0.30	47.10	
90	120		Cum	1	30.00	5.10	0.30	45.90	
120	150	Sathish house	Cum	1	30.00	5.30	0.30	47.70	
150	180		Cum	1	30.00	5.43	0.30	48.90	
180	210		Cum	1	30.00	5.37	0.30	48.30	
210	240		Cum	1	30.00	4.93	0.30	44.40	
240	269.8		Cum	1	29.80	4.90	0.30	43.81	
		Jayamuni layout 2nd A main							
0	30		Cum	1	30.00	5.30	0.30	47.70	
30	60		Cum	1	30.00	5.07	0.30	45.60	
60	90	Navya shetty house	Cum	1	30.00	5.40	0.30	48.60	
90	120		Cum	1	30.00	5.23	0.30	47.10	
120	150	Appayya house	Cum	1	30.00	4.90	0.30	44.10	
150	180		Cum	1	30.00	5.17	0.30	46.50	
180	210		Cum	1	30.00	5.33	0.30	48.00	
210	231		Cum	1	21.00	5.20	0.30	32.76	
		Opposite of Ganesha temple							
0	15		Cum	1	15.00	4.35	0.30	19.58	

CIVIL Pro Sig Date BANGALORE

13-12-13

Contactor PMC Assistant Engineer Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
15	28.2		Cum	1	13.20	4.20	0.30	16.63	
		Culvert							
28.2	50.2		Cum	1	22.00	4.17	0.30	27.50	
50.2	61.7		Cum	1	11.50	4.45	0.30	15.35	
		Ganesha temple (end)							
		Appayya to Ramanna house							
0	15		Cum	1	15.00	3.50	0.30	15.75	
15	30		Cum	1	15.00	3.50	0.30	15.75	
30	45		Cum	1	15.00	3.40	0.30	15.30	
45	60		Cum	1	15.00	3.50	0.30	15.75	
60	75		Cum	1	15.00	3.50	0.30	15.75	
75	90		Cum	1	15.00	3.50	0.30	15.75	
							TOTAL	1119.29	
							Quantity Limited To	1118.64	

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CIVIL Pro Sig Date BANGALORE

PMC

13-12-19

Assistant Engineer

13/12/19

A.E.E

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item no.08		**Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications.. as per specifications and as per the directions of the Engineer-in-charge of the work .**							
		For Concrete Road							
		Anjaneya Swami temple road							
		Garrage main road							
		Lakeview entrance							
0	15		Cum	1	15.00	4.67	0.15	10.50	
15	30		Cum	1	15.00	4.60	0.15	10.35	
30	39		Cum	1	9.00	5.05	0.15	6.82	
39	50.6		Cum	1	11.60	4.25	0.15	7.40	
		2nd Cross							
		Venkatala							
0	15		Cum	1	15.00	3.97	0.15	8.93	
15	40		Cum	1	25.00	3.57	0.15	13.38	
		4th Cross							
		Venkatala							
0	15		Cum	1	15.00	4.63	0.15	10.43	
15	38		Cum	1	23.00	4.60	0.15	15.87	
		Jayamuni layout 1st Cross							
		Kanasu house							
0	30		Cum	1	30.00	5.13	0.15	23.10	
30	60		Cum	1	30.00	5.13	0.15	23.10	
60	90		Cum	1	30.00	5.23	0.15	23.55	
90	120		Cum	1	30.00	5.10	0.15	22.95	
120	150	Sathish house	Cum	1	30.00	5.30	0.15	23.85	
150	180		Cum	1	30.00	5.43	0.15	24.45	
180	210		Cum	1	30.00	5.37	0.15	24.15	
210	240		Cum	1	30.00	4.93	0.15	22.20	
240	269.8		Cum	1	29.80	4.90	0.15	21.90	

CIVIL Pro Sig Date PMC BANGALORE

16-12-19

10/12/19

Contactor

Assistant Engineer

A.E.E

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
		Jayamuni layout 2nd A main							
0	30		Cum	1	30.00	5.30	0.15	23.85	
30	60		Cum	1	30.00	5.07	0.15	22.80	
60	90	Navya shetty house	Cum	1	30.00	5.40	0.15	24.30	
90	120		Cum	1	30.00	5.23	0.15	23.55	
120	150	Appayya house	Cum	1	30.00	4.90	0.15	22.05	
150	180		Cum	1	30.00	5.17	0.15	23.25	
180	210		Cum	1	30.00	5.33	0.15	24.00	
210	231		Cum	1	21.00	5.20	0.15	16.38	
		Opposite of Ganesha temple							
0	15		Cum	1	15.00	4.35	0.15	9.79	
15	28.2		Cum	1	13.20	4.20	0.15	8.32	
		Culvert							
28.2	50.2		Cum	1	22.00	4.17	0.15	13.75	
50.2	61.7		Cum	1	11.50	4.45	0.15	7.68	
		Ganesha temple (end)							
		Appayya to Ramanna house							
0	15		Cum	1	15.00	3.50	0.15	7.88	
15	30		Cum	1	15.00	3.50	0.15	7.88	
30	45		Cum	1	15.00	3.40	0.15	7.65	
45	60		Cum	1	15.00	3.50	0.15	7.88	
60	75		Cum	1	15.00	3.50	0.15	7.88	
75	90		Cum	1	15.00	3.50	0.15	7.88	
							TOTAL	559.65	
							Quantity Limited To	559.32	

Contactor

PMC

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item no.09		Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift.as per specifications and as per the directions of the Engineer-in-charge of the work.							
		For Concrete Road							
		Anjaneya Swami temple road							
		Garrage main road							
		Lakeview entrance							
0	15		Sqm	1	15.00	4.67		70.00	
15	30		Sqm	1	15.00	4.60		69.00	
30	39		Sqm	1	9.00	5.05		45.45	
39	50.6		Sqm	1	11.60	4.25		49.30	
		2nd Cross							
		Venkatala							
0	15		Sqm	1	15.00	3.97		59.50	
15	40		Sqm	1	25.00	3.57		89.17	
		4th Cross							
		Venkatala							
0	15		Sqm	1	15.00	4.63		69.50	
15	38		Sqm	1	23.00	4.60		105.80	
		Jayamuni layout 1st Cross							
		Kanasu house							
0	30		Sqm	1	30.00	5.13		154.00	
30	60		Sqm	1	30.00	5.13		154.00	
60	90		Sqm	1	30.00	5.23		157.00	
90	120		Sqm	1	30.00	5.10		153.00	
120	150	Sathish house	Sqm	1	30.00	5.30		159.00	
150	180		Sqm	1	30.00	5.43		163.00	
180	210		Sqm	1	30.00	5.37		161.00	
210	240		Sqm	1	30.00	4.93		148.00	
240	269.8		Sqm	1	29.80	4.90		146.02	
		Jayamuni layout 2nd A main							
0	30		Sqm	1	30.00	5.30		159.00	
30	60		Sqm	1	30.00	5.07		152.00	
60	90	Navya shetty house	Sqm	1	30.00	5.40		162.00	
90	120		Sqm	1	30.00	5.23		157.00	
120	150	Appayya house	Sqm	1	30.00	4.90		147.00	
150	180		Sqm	1	30.00	5.17		155.00	
180	210		Sqm	1	30.00	5.33		160.00	
210	231		Sqm	1	21.00	5.20		109.20	
		Opposite of Ganesha temple							
0	15		Sqm	1	15.00	4.35		65.25	
15	28.2		Sqm	1	13.20	4.20		55.44	
		Culvert							
28.2	50.2		Sqm	1	22.00	4.17		91.67	

Contactor

PMC Sig Date BANGALORE

Assistant Engineer 13-12-15

A.E.E 15/12/15

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
50.2	61.7		Sqm	1	11.50	4.45		51.18	
		Ganesha temple (end)							
		Appayya to Ramanna house							
0	15		Sqm	1	15.00	3.50		52.50	
15	30		Sqm	1	15.00	3.50		52.50	
30	45		Sqm	1	15.00	3.40		51.00	
45	60		Sqm	1	15.00	3.50		52.50	
60	75		Sqm	1	15.00	3.50		52.50	
75	90		Sqm	1	15.00	3.50		52.50	
							TOTAL	3730.97	
							Quantity Limited To	3728.80	

Contactor

PMC

Assistant Engineer

Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to Roads and Drains at Jayamuni Badavane and surrounding areas in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item No. 01		Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.. and as per the directions of the Engineer-in-charge of the work .							
Measurements Taken On :									
		Drain							
		JP house road							
0	19.2		Cum	1	19.20	0.45	0.35	3.02	
		Muniyappa house(towards NH)							
		RHS							
0	26.2		Cum	1	26.20	0.45	0.35	4.13	
26.2	32.2		Cum	1	6.00	0.45	0.35	0.95	
32.2	47.2		Cum	1	15.00	0.45	0.35	2.36	
47.2	62.2		Cum	1	15.00	0.45	0.35	2.36	
		LHS							
0	15		Cum	1	15.00	0.45	0.35	2.36	
15	30		Cum	1	15.00	0.45	0.35	2.36	
30	39		Cum	1	9.00	0.45	0.35	1.42	
		After Cross road							
		RHS							
0	15		Cum	1	15.00	0.45	0.35	2.36	
15	30		Cum	1	15.00	0.45	0.35	2.36	
30	31.5		Cum	1	1.50	0.45	0.35	0.24	
		LHS							
0	15		Cum	1	15.00	0.45	0.35	2.36	
15	30		Cum	1	15.00	0.45	0.35	2.36	
30	45		Cum	1	15.00	0.45	0.35	2.36	
45	60		Cum	1	15.00	0.45	0.35	2.36	
60	61.5		Cum	1	1.50	0.45	0.35	0.24	
		Cross road							
		RHS							
0	18		Cum	1	18.00	0.45	0.35	2.84	
		LHS							
0	15		Cum	1	15.00	0.45	0.35	2.36	
15	24.8		Cum	1	9.80	0.45	0.35	1.54	
		Opposite of Ganesha temple cross road							
		LHS							
0	15		Cum	1	15.00	0.45	0.35	2.36	
15	30		Cum	1	15.00	0.45	0.35	2.36	

CIVIL Rlo Sign Date BMC BANGALORE

Contactor

15/11/19 Assistant Engineer

13/11/19 Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to Roads and Drains at Jayamuni Badavane and surrounding areas in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
0	15		Cum	1	15.00	0.45	0.35	2.36	
15	30		Cum	1	15.00	0.45	0.35	2.36	
30	45		Cum	1	15.00	0.45	0.35	2.36	
45	49		Cum	1	4.00	0.45	0.35	0.63	
		RHS							
0	15		Cum	1	15.00	0.45	0.35	2.36	
15	30		Cum	1	15.00	0.45	0.35	2.36	
30	45		Cum	1	15.00	0.45	0.35	2.36	
45	61		Cum	1	16.00	0.45	0.35	2.52	
		Appayya to Ramanna house							
		LHS							
0	15		Cum	1	15.00	0.45	0.40	2.70	
15	30		Cum	1	15.00	0.45	0.40	2.70	
30	45		Cum	1	15.00	0.45	0.40	2.70	
45	60		Cum	1	15.00	0.45	0.40	2.70	
60	75		Cum	1	15.00	0.45	0.40	2.70	
75	90		Cum	1	15.00	0.45	0.40	2.70	
		RHS							
0	15		Cum	1	15.00	0.45	0.40	2.70	
15	30		Cum	1	15.00	0.45	0.40	2.70	
30	45		Cum	1	15.00	0.45	0.40	2.70	
45	60		Cum	1	15.00	0.45	0.40	2.70	
60	75		Cum	1	15.00	0.45	0.40	2.70	
75	90		Cum	1	15.00	0.45	0.40	2.70	
90	104.1		Cum	1	14.10	0.45	0.40	2.54	
104.1	118.2		Cum	1	14.10	0.45	0.40	2.54	
		Cross Road							
0	15		Cum	1	15.00	0.45	0.40	2.70	
15	30		Cum	1	15.00	0.45	0.40	2.70	
30	45		Cum	1	15.00	0.45	0.40	2.70	
45	60		Cum	1	15.00	0.45	0.40	2.70	
60	75		Cum	1	15.00	0.45	0.40	2.70	
		Culvert							
			Cum	1	7.60	1.60	1.15	13.98	
			Cum	1	4.10	1.60	1.15	7.54	
		Over Burden	Cum	1	11.00	0.80	0.30	2.64	
							Total	132.82	

CIVIL Pro Sig Date BANGALORE

Contactor

PMC

Assistant Engineer

15/11/19

Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to Roads and Drains at Jayamuni Badavane and surrounding areas in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no. 02		**Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. and as per the directions of Engineer in-charge of work.**							
Measurements Taken On :									
		Culvert							
			Cum	1	7.60	1.60	0.15	1.82	
			Cum	1	4.10	1.60	0.15	0.98	
		For Concrete Road							
		Anjaneya Swami temple road							
		Garrage main road							
		Lakeview entrance							
0	15		Cum	1	15.00	4.67	0.15	10.50	
15	30		Cum	1	15.00	4.60	0.15	10.35	
30	39		Cum	1	9.00	5.05	0.15	6.82	
39	50.6		Cum	1	11.60	4.25	0.15	7.40	
		2nd Cross							
		Venkatala							
0	15		Cum	1	15.00	3.97	0.15	8.93	
15	40		Cum	1	25.00	3.57	0.15	13.38	
		4th Cross							
		Venkatala							
0	15		Cum	1	15.00	4.63	0.15	10.43	
15	38		Cum	1	23.00	4.60	0.15	15.87	
		Jayamuni layout 1st Cross							
		Kanasu house							
0	30		Cum	1	30.00	5.13	0.15	23.10	
30	60		Cum	1	30.00	5.13	0.15	23.10	
60	90		Cum	1	30.00	5.23	0.15	23.55	
90	120		Cum	1	30.00	5.10	0.175	26.78	
120	150	Sathish house	Cum	1	30.00	5.30	0.15	23.85	
150	180		Cum	1	30.00	5.43	0.175	28.53	
180	210		Cum	1	30.00	5.37	0.15	24.15	
210	240		Cum	1	30.00	4.93	0.175	25.90	
240	269.8		Cum	1	29.80	4.90	0.15	21.90	
		Jayamuni layout 2nd A main							

CWIL Pro Sig. Date PMC BANGALORE

Contactor

Assistant Engineer 18-11-19

Assistant Executive Engineer 21/11/19

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to Roads and Drains at Jayamuni Badavane and surrounding areas in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
0	30		Cum	1	30.00	5.30	0.15	23.85	
30	60		Cum	1	30.00	5.07	0.150	22.80	
60	90	Navya shetty house	Cum	1	30.00	5.40	0.18	28.35	
90	120		Cum	1	30.00	5.23	0.175	27.48	
120	150	Appayya house	Cum	1	30.00	4.90	0.15	22.05	
150	180		Cum	1	30.00	5.17	0.160	24.80	
180	210		Cum	1	30.00	5.33	0.15	24.00	
210	231		Cum	1	21.00	5.20	0.15	16.38	
		Opposite of Ganesha temple							
0	15		Cum	1	15.00	4.35	0.15	9.79	
15	28.2		Cum	1	13.20	4.20	0.15	8.32	
		Appayya to Ramanna house							
0	15		Cum	1	15.00	3.50	0.15	7.88	
15	30		Cum	1	15.00	3.50	0.15	7.88	
30	45		Cum	1	15.00	3.40	0.15	7.65	
45	60		Cum	1	15.00	3.50	0.15	7.88	
60	75		Cum	1	15.00	3.50	0.15	7.88	
75	90		Cum	1	15.00	3.50	0.15	7.88	
							TOTAL	562.15	

CIVIL Pro Sig Date PMC BANGALORE

18-11-11

Contactor

Assistant Engineer

Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to Roads and Drains at Jayamuni Badavane and surrounding areas in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.04		Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications as per specifications and as per the directions of the Engineer-in-charge of the work .							
Measurements Taken On :									
		for Drain 70 kg	Tonne		From calculation sheet			2.48	
		for Culvert 100kg	Tonne		From calculation sheet			0.66	
							TOTAL	3.14	

Contactor

CIVIL Pro Sig PMC

Assistant Engineer 21/11/14

Assistant Executive Engineer 21/11/14

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to Roads and Drains at Jayamuni Badavane and surrounding areas in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

STEEL CALCULATION

SI NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	Length	Total Length	Weight	Total weight
			mm			m	m	kg/m	Kg's
	Item no.04	**Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.**							
	Measurements Taken On								
	side walls Rising of existing draini								
	JP house road								
	Main Bars (#10@180 c/c)	2	10	108	215	0.15	32.30	0.616538	19.91
	Distribution(2-#8)	2	8	2	4	19.20	76.80	0.394584	30.30
	Muniyappa house(towards NH)								
	RHS								
	Main Bars (#10@180 c/c)	2	10	347	693	0.15	103.97	0.616538	64.10
	Distribution(2-#8)	2	8	2	4	62.20	248.80	0.394584	98.17
	LHS								
	Main Bars (#10@180 c/c)	2	10	218	435	0.15	65.30	0.616538	40.26
	Distribution(2-#8)	2	8	2	4	62.20	248.80	0.394584	98.17
	Cross road								
	RHS								
	Main Bars (#10@180 c/c)	2	10	101	202	0.15	30.30	0.616538	18.68
	Distribution(2-#8)	2	8	2	4	18.00	72.00	0.394584	28.41
	LHS								
	Main Bars (#10@180 c/c)	2	10	139	278	0.15	41.63	0.616538	25.67
	Distribution(2-#8)	2	8	2	4	24.80	99.20	0.394584	39.14
	Opposite of Ganesha temple cross road								
	LHS								
	Main Bars (#10@180 c/c)	2	10	273	546	0.15	81.97	0.616538	50.54
	Distribution(2-#8)	2	8	2	4	49.00	196.00	0.394584	77.34
	RHS								
	Main Bars (#10@180 c/c)	2	10	340	680	0.15	101.97	0.616538	62.87
	Distribution(2-#8)	2	8	2	4	61.00	244.00	0.394584	96.28

CHIEF Pro Sig Date BANGALORE

21/11/19

Contractor PMC Assistant Engineer Assistant Executive Engineer

	Appayya to Ramanna house								
	LHS								
	Main Bars (#10@180 c/c)	2	10	501	1002	0.15	150.30	0.616538	92.67
	Distribution(2-#8)	2	8	2	4	90.00	360.00	0.394584	142.05
	RHS								
	Main Bars (#10@180 c/c)	2	10	658	1315	0.15	197.30	0.616538	121.64
	Distribution(2-#8)	2	8	2	4	118.20	472.80	0.394584	186.56
	Cross Road-								
	Main Bars (#10@180 c/c)	2	10	4190	8380	0.15	1256.97	0.616538	774.97
	Distribution(2-#8)	2	8	2	4	75.00	300.00	0.394584	118.38
	Cross Road-								
	Main Bars (#10@180 c/c)	2	10	618	1235	0.15	185.30	0.616538	114.24
	Distribution(2-#8)	2	8	2	4	111.00	444.00	0.394584	175.20
	Culvert								
	To Cross Road								
	side wall								
	Main Bars outer face (#12@200 c/c)	2	12	39	78	3.10	241.80	0.887814	214.67
	Main Bars inner face (#12@200 c/c)	2	12	39	78	2.70	210.60	0.887814	186.97
	Distribution								
	side walls(8#8)	4	8	8	32	0.80	25.60	0.394584	10.10
	bottom slab(8-#8)	2	8	8	16	1.50	24.00	0.394584	9.47
	Main Road Towards NH								
	side wall								
	Main Bars outer face (#12@200 c/c)	2	12	22	43	3.10	133.30	0.887814	118.35
	Main Bars inner face (#12@200 c/c)	2	12	22	43	2.70	116.10	0.887814	103.08
	Distribution								
	side walls(8#8)	4	8	8	32	0.80	25.60	0.394584	10.10
	bottom slab(8-#8)	2	8	8	16	1.50	24.00	0.394584	9.47
								TOTAL QTY IN KG'S	3137.75
								TOTAL QTY IN TONNE	3.14

CIVIL Pro Sig Date BANGALORE

Contractor

PMC

Assistant Engineer

Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to Roads and Drains at Jayamuni Badavane and surrounding areas in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no. 07		Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers , trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications as per specifications and as per the directions of the Engineer-in-charge of the work .							
Measurements Taken On :									
		For Concrete Road							
		Anjaneya Swami temple road							
		Garrage main road							
		Lakeview entrance							
0	15		Cum	1	15.00	4.67	0.30	21.00	
15	30		Cum	1	15.00	4.60	0.30	20.70	
30	39		Cum	1	9.00	5.05	0.30	13.64	
39	50.6		Cum	1	11.60	4.25	0.30	14.79	
		2nd Cross							
		Venkatala							
0	15		Cum	1	15.00	3.97	0.30	17.85	
15	40		Cum	1	25.00	3.57	0.30	26.75	
		4th Cross							
		Venkatala							
0	15		Cum	1	15.00	4.63	0.30	20.85	
15	38		Cum	1	23.00	4.60	0.30	31.74	
		Jayamuni layout 1st Cross							
		Kanasu house							
0	30		Cum	1	30.00	5.13	0.30	46.20	
30	60		Cum	1	30.00	5.13	0.30	46.20	
60	90		Cum	1	30.00	5.23	0.30	47.10	
90	120		Cum	1	30.00	5.10	0.30	45.90	
120	150	Sathish house	Cum	1	30.00	5.30	0.30	47.70	
150	180		Cum	1	30.00	5.43	0.30	48.90	
180	210		Cum	1	30.00	5.37	0.30	48.30	
210	240		Cum	1	30.00	4.93	0.30	44.40	
240	269.8		Cum	1	29.80	4.90	0.30	43.81	
		Jayamuni layout 2nd A main							
0	30		Cum	1	30.00	5.30	0.30	47.70	
30	60		Cum	1	30.00	5.07	0.30	45.60	

CIVIL PWD BANGALORE Sig Date

12/12/19

Assistant Engineer

12/12/19

Assistant Executive Engineer

Contactor

PMC

Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to Roads and Drains at Jayamuni Badavane and surrounding areas in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
60	90	Navya shetty house	Cum	1	30.00	5.40	0.30	48.60	
90	120		Cum	1	30.00	5.23	0.30	47.10	
120	150	Appayya house	Cum	1	30.00	4.90	0.30	44.10	
150	180		Cum	1	30.00	5.17	0.30	46.50	
180	210		Cum	1	30.00	5.33	0.30	48.00	
210	231		Cum	1	21.00	5.20	0.30	32.76	
		Opposite of Ganesha temple							
0	15		Cum	1	15.00	4.35	0.30	19.58	
15	28.2		Cum	1	13.20	4.20	0.30	16.63	
		Culvert							
28.2	50.2		Cum	1	22.00	4.17	0.30	27.50	
50.2	61.7		Cum	1	11.50	4.45	0.30	15.35	
		Ganesha temple (end)							
		Appayya to Ramanna house							
0	15		Cum	1	15.00	3.50	0.30	15.75	
15	30		Cum	1	15.00	3.50	0.30	15.75	
30	45		Cum	1	15.00	3.40	0.30	15.30	
45	60		Cum	1	15.00	3.50	0.30	15.75	
60	75		Cum	1	15.00	3.50	0.30	15.75	
75	90		Cum	1	15.00	3.50	0.30	15.75	C&R
							TOTAL	1119.29	

CIVIL Pro Sig Date BANGALORE

PMC

12-12-19
Assistant Engineer

12/12/19
Assistant Executive Engineer

Contactor

Executive Engineer